

Application No.: 10/057,606

Docket No.: 22106-00038-US1

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-20 (canceled)

Claim 21 (new) A mixture of biodegradable polyesters which includes:

- A. an aromatic-aliphatic polyester with a melting point of between 50° and 170°C;
- B. an aliphatic polyester with a molecular weight Mw greater than 60,000 and a melting point between 50° and 95C;
- C. A polylactic acid polymer which contains at least 75% of L-lactic or D-lactic acid, or combinations thereof, with a molecular weight Mw greater than 30,000, in which the concentration of A varies with respect to (A+B) in the range of between 40 and 70% by weight, and the concentration of C with respect to (A+B+C) is of between 6 and 30%.

Claim 22 (new) A mixture of biodegradable polyesters according to Claim 21 in which the concentration of C with respect to (A+B+C) is of between 10 and 25% by weight.

Claim 23 (new) A mixture of biodegradable polyesters according to Claim 21, in which the aliphatic polyester (B) is a diacid/diol obtained from an aliphatic diacid from renewable source and makes up more than 50% in moles of the total diacid content.

Claim 24 (new) A mixture of biodegradable polyesters according to Claim 23 in which the dicarboxylic aliphatic diacid is selected from azelaic, sebacic or brassylic acid and makes up more than 50% in moles of the total diacid content.

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Claim 25 (new) A mixture of biodegradable polyesters according to Claim 21 in which the aliphatic polyester (B) is poly-epsilon-caprolactone or co-polymers thereof.

Claim 26 (new) A mixture of biodegradable polyesters according to any one of Claims 21-25, in which the modulus of the aromatic-aliphatic polyester (A) is less than 150 MPa and its elongation to breaking is greater than 500% for film with a thickness of between 25-30 μm produced by the blown method.

Claim 27 (new) A mixture of biodegradable polyesters according to any one of Claims 21-25 in which the modulus of elasticity of the aliphatic polyester (B) is of between 200 and 900 MPa and its elongation to breaking is greater than 200%, for film with a thickness of between 25-30 μm produced by the blown method.

Claim 28 (new) A mixture of biodegradable polyesters according to Claim 27, in which the elongation to breaking of the aliphatic polyester (B) is greater than 300%.

Claim 29 (new) A mixture of biodegradable polyesters according to any one of Claims 21-25 in which the modulus of the polylactic acid polymer (C) is greater than 1,500 MPa.

Claim 30 (new) A mixture of biodegradable polyesters according to Claim 21, in which:

-- the aromatic-aliphatic polyester (A) has a modulus of less than 150MPa, elongation to breaking of more than 500% for film with a thickness of 25-30 μm , produced by the blown method;

-- the aliphatic polyester (B) has a modulus of elasticity between 200 and 900 MPa, elongation to breaking of more than 200%, for film with a thickness of 25-30 μm , produced by bubble forming; and

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– the polylactic acid polymer (C) has a modulus greater than 1,500 MPa.

Claim 31 (new) A mixture of biodegradable polyesters according to Claim 30, in which the elongation to breaking of the aliphatic polyester (B) is greater than 300%.

Claim 32 (new) A mixture of biodegradable polyesters according to any one of Claims 21-25, and 31 which the aromatic-aliphatic polyester is biodegradable according to standard CEN13432.

Claim 33 (new) A mixture of biodegradable polyesters according to any one of Claims 21-25, and 31 in which the melting point of the aromatic-aliphatic polyester (A) is of between 80° and 120°C.

Claim 34 (new) A mixture of biodegradable polyesters according to any one of Claims 21-25 and 31 which the melting point of the aliphatic polyester (B) is of between 55 and 85°C.

Claim 35 (new) A film produced from mixtures of biodegradable polyesters according to any one of Claims 21-25, 30 and 31.

Claim 36 (new) A film according to Claim 35, characterized by tear resistance in both directions, according to the Elmendorf test, of between 15 and 100 N/mm.

Claim 37 (new) A film according to Claim 35, characterized by tear resistance in both directions, according to the Elmendorf test, of between 20 and 90 N/mm.

Claim 38 (new) A film according to Claim 35, characterized by tear resistance in both directions according to the Elmendorf test, of between 25 and 80 N/mm.

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Claim 39 (new) A film according to Claim 36, characterized in that the ratio of transverse to longitudinal tear resistance, according to the Elmendorf test, is of between 3.5 and 0.4.

Claim 40 (new) A film according to Claim 35, characterized in that the modulus value is of between 150 and 800 MPa.

Claim 41 (new) A film according to Claim 35, characterized in that the modulus value is of between 250 and 750 MPa.

Claim 42 (new) A film according to Claim 38 in the form of food packaging, for containing organic residue and for agricultural mulching.

Claim 43 (new) Compact sheet manufactured with a mixture according to any one of Claims 21-25, 30 and 31 for food containers, containers for seedlings and industrial containers in general.

Claim 44 (new) Foam sheet manufactured with a mixture according to any one of Claims 21-25, 30 and 31 for food and other containers and for industrial packaging.

Claim 45 (new) Fibers manufactured with a mixture according to anyone of Claims 21-25, 30 and 31 for textiles and non-woven fabrics used in the hygiene, fashion and industrial sectors.

Claim 46 (new) A coating material comprising a mixture according to any one of Claims 21-25, 30 and 31, for application to paper, textiles, non-woven fabrics or other layers of compact or expanded biodegradable material.

Claim 47 (new) A mixture of biodegradable polyesters according to any one of Claims 21-25, 30 and 31 in combination with destructured starch, natural starch or modified starch, wherein the starch is in a complex or not complex dispersed phase.